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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,416	03/31/2006	Dorre Grueneberg	USAV20020187 US PCT	9284
5487 7590 10/05/2007 ANDREA Q. RYAN			EXAMINER	
SANOFI-AVENTIS U.S. LLC 1041 ROUTE 202-206 MAIL CODE: D303A BRIDGEWATER, NJ 08807		CHONG, KIMBERLY		
			ART UNIT	PAPER NUMBER
		1635		
			NOTIFICATION DATE	DELIVERY MODE
			10/05/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatent.E-Filing@sanofi-aventis.com andrea.ryan@sanofi-aventis.com

	Application No.	Applicant(s)	
	10/574,416	GRUENEBERG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kimberly Chong	1635	
The MAILING DATE of this communication app		correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 31 M	1arch 2006.		
,	s action is non-final.		
3) Since this application is in condition for allowa		secution as to the merits is	
closed in accordance with the practice under E			
Disposition of Claims		;	
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.		•	
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.		·	
8) Claim(s) <u>1-22</u> are subject to restriction and/or	election requirement.		
Application Papers	. •	. "	
9) The specification is objected to by the Examine	er		
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the	•		
Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign	o priority under 35 H.S.C. & 110/a)_(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority under 33 0.0.0. § 113(a))-(u) Or (i).	
1. Certified copies of the priority document	ts have been received.	•	
2. Certified copies of the priority document		ion No	
3. Copies of the certified copies of the prio			
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
		•	
•	. •	•	
Attachment(s)		·	
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P		
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 2-8, 10, 16-22, drawn to a retroviral vector for carrying double stranded RNA into a cell comprising a promoter, a polylinker, and a target gene specific insert comprising dsRNA wherein the retroviral vector further comprises a reporter gene Hygro and wherein the retroviral vector is a MSCV-U6-Hygro having SEQ ID NO. 10, classifiable in class 536, subclass 24.5. This group is subject to a further species election.
- II. Claims 2-8, 10, 16-22, drawn to a retroviral vector for carrying double stranded RNA into a cell comprising a promoter, a polylinker, and a target gene specific insert comprising dsRNA, wherein the retroviral vector further comprises a reporter gene Puro and wherein the retroviral vector is a MSCV-U6-Puro having SEQ ID NO. 11, classifiable in class 536, subclass 24.5. This group is subject to a further species election.
- III. Claims 2-8, 10, 16-22, drawn to a retroviral vector for carrying double stranded RNA into a cell comprising a promoter, a polylinker, and a target gene specific insert comprising dsRNA wherein the retroviral vector further comprises a reporter gene hrGFP and wherein the retroviral vector is a MSCV-U6-hrGFP having SEQ ID NO. 12, classifiable in class 536, subclass 24.5. This group is subject to a further species election.

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IV. Claims 2-7, 9-15, drawn to a retroviral vector for carrying double stranded RNA into a cell comprising a promoter, a polylinker, and a target gene specific insert comprising dsRNA wherein the retroviral vector is a modified Lentivirus vector, wherein the vector comprises a reporter gene Blasti and wherein the vector is pLenti-U6-Blasti having SEQ ID NO. 8, classifiable in class 536, subclass 24.5. This group is subject to a further species election.

V. Claims 2-7, 9-15, drawn to a retroviral vector for carrying double stranded RNA into a cell comprising a promoter, a polylinker, and a target gene specific insert comprising dsRNA wherein the retroviral vector is a modified Lentivirus vector, wherein the vector comprises a reporter gene hrGFP and wherein the vector is pLenti-U6-hrGFP having SEQ ID NO. 9, classifiable in class 536, subclass 24.5. This group is subject to a further species election.

The inventions are distinct, each from the other because of the following reasons:

Claim 1 link(s) inventions of groups I-V. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 1. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or

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including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is

F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01

withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 44

Inventions of groups I-V are directed to related retroviral vectors comprising a dsRNA. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(i). In the instant case, the siRNA are mutually exclusive because each siRNA comprises different sequences. For example, group I is drawn to retroviral vector wherein the retroviral vector is a MSCV and wherein the MSCV is a sequence having SEQ ID No. 10, group II is drawn to retroviral vector wherein the retroviral vector is a MSCV and wherein the MSCV is a sequence having SEQ ID No. 11, group III is drawn to retroviral vector wherein the retroviral vector is a MSCV and wherein the MSCV is a sequence having SEQ ID No. 12, group IV is drawn to retroviral vector wherein the retroviral vector is a modified Lentivirus and wherein the modified Lentivirus is a sequence having SEQ ID No. 8, and group V is drawn to retroviral vector wherein the retroviral vector is a modified Lentivirus and wherein the modified Lentivirus is a

sequence having SEQ ID No. 9. The inventions of groups I-V are mutually exclusive because they are not obvious variants of each because each comprises a different retrovirus having a different sequence, the retroviral vectors of groups I-V are not disclosed as capable of use together and each have a different design. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;

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(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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This application contains claims directed to the following patentably distinct species. Claim 2 is directed to patentably distinct promoter sequences. Claims 3, 12 and 18 are directed to patentably distinct polylinker sequences. The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Chong whose telephone number is 571-272-3111. The examiner can normally be reached Monday thru Friday between 7-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Schultz can be reached at 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file

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/Kimberly Chong/ Examiner AU 1635